



Material and Performance Specification

ECC-2 Double Net Coconut Rolled Erosion Control Product

Description: The ECC-2 is made with uniformly distributed 100% coconut fiber and two polypropylene nets securely sewn together with UV stabilized thread. The tightly compressed blankets are wrapped and include a product label, code and installation guide. The blankets are palletized for easy transportation.

The ECC-2 has functional longevity of approximately 36 months, but will vary depending on soil and climatic conditions, and is suitable for slopes 1:1 and medium to high flow channels. The ECC-2 meets Type 4 specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration’s (FHWA) FP-03 Section 713.17.

Materials:

Netting – Top and Bottom	Matrix	Thread
Mediumweight UV Stabilized Polypropylene 0.75" x 0.75" Opening	100% Coconut Fiber 0.55 lbs yd ² 298.4 g/m ²	UV Stabilized 1.50" stitch spacing

Roll Sizes:

	Standard	Mega
Width:	7.5 ft (2.3 m)	15.0 ft (4.6 m)
Length:	120.0 ft (36.6 m)	120.0 ft
Weight \pm 10%:	60.0 lbs (27.2 kg)	120.0 lbs (54.4 kg)
Area:	100 yd ² (83.6 m ²)	200 yd ² (167.2 m ²)
#/Pallet:	16	16

Index Value Properties*:

Property	Test Method	Typical
Mass/Unit Area	ASTM D6475	10.36 oz/yd ² (351.3g/m ²)
Thickness	ASTM D6525	.26 in (6.6mm)
Tensile Strength-MD	ASTM D6818	260 lb/ft (3.8 kN/m)
Elongation-MD	ASTM D6818	20 %
Tensile Strength-TD	ASTM D6818	196 lb/ft (2.9 kN/m)
Elongation-TD	ASTM D6818	20 %
Light Penetration	ASTM D6567	16 %
Water Absorption	ASTM D1117	308 %

* May differ depending upon raw material variations

Bench-Scale Testing* (NTPEP*):**

Test Method	Parameters	Results
ECTC Method 2 Rainfall	50mm (2in) / hr-30 min	SLR**=9.48
	100mm (4in) / hr-30 min	SLR**=13.81
	150mm (6in) / hr-30 min	SLR**=20.12
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	2.53 lb/ft ²
ECTC Method 4 Germination	Top soil; Fescue; 21 day incubation	485% improvement

*Bench scale tests should not be used for design purposes.
**Soil Loss Ratio=Soil Loss Bare Soil/Soil Loss with RECP=1/C-Factor
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Slope Performance Design Values*:

Property	Test Method	Value	
Manning’s N	Calculated	0.015	
C-Factors	ASTM D6459		
Slope Length (L)	≤ 3:1	3:1-2:1	≥ 2:1
< 50 ft (15 m)	0.010	0.023	0.072
50 ft – 100 ft	0.030	0.054	0.090
>100 ft (30 m)	0.064	0.084	0.104

*Large-Scale Results obtained by 3rd Party GAI Accredited Independent Laboratory

Channel Performance Design Values*:

Property	Test Method	Value
Unvegetated Shear Stress	ASTM D 6460	2.30 lbs/ft ² (110 Pa)
Unvegetated Velocity	ASTM D 6460	7.0 ft/s (2.1 m/s)
Vegetated Shear Stress	NA	NA
Vegetated Velocity	NA	NA

*Large-Scale Results obtained by 3rd Party GAI Accredited Independent Laboratory



All Value Properties, Test Results and Design Values were derived from independent laboratory testing. East Coast Erosion Blankets, LLC will not be held liable for any type of damage or losses, directly, or indirectly for failure of this product. Current revision supersedes all previous versions.